

AR50015PU-S

Human HSP60 (1-573, His-tag) - Purified

Alternate names:

60 kDa chaperonin, 60 kDa heat shock protein mitochondrial, CPN60, Chaperonin 60, GROEL, GroEL Homolog, HSP-60, HSPD1, Heat shock protein 60, HuCHA60, Mitochondrial matrix protein P1, P60 lymphocyte protein

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

Heat shock protein 60 (HSP60) is a mitochondrial chaperonin that is typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. HSP60 is the ~60kDa mammalian equivalent to GroEL of E.coli. Process of HSP60 is regulated by the cochaperonin HSP10, a single heptameric ring of ~10kD subunits that forms a complex with HSP60. HSP10 coordinates the ATPase activity of the HSP60 subunits to allow the release of bound polypeptide in a manner productive for folding.

Uniprot ID:

[P10809](#)

NCBI:

[NP_002147](#)

GenelD:

[3329](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 25 mM Tris pH 7.5, 100mM NaCl, 5mM DTT, 10% glycerol.

Description:

Recombinant human HSP60, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALM
LQGVLLADA VAVTMGPKGR TVIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD
VANNTNEEAG DGTITATVLA RSIAGEFEK ISKGANPVEI RRGVMLAVDA VIAELKKQSK
PVTTPEEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT VKDGKTLNDE LEIIEGMKFD
RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK ISSIQSIVPA LEIANHRKP LVIIAEDVDG
EALSTLVLRN LKVGLQVVAV KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH
DLGKVGIVV TKDDAMLLKG KGDKAQIEKR IQEIEQLDV TTSEYEKEKL NERLAKLSDG
VAVLKVGGS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA LDSLTPANED
QKIGIEIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF VNMVEKGIID
PTKVVRTALL DAAGVASLLT TAEVVTEIP KEEKDPGMGA MGGMGGMGG GMF

Molecular weight: 63 kDa (593aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Cheng MY., et al. (1990), Nature. 348: 455- 458 Ghosh JC., et al. (2008), J Biol Chem. Feb 22; 283(8):5188-94

Pictures:

